WHAT IS CLAIMED IS:

- A digital broadcasting system comprising a digital broadcasting transmission apparatus for broadcasting data groups; and
- a digital broadcasting receive apparatus for receiving said data groups directly or indirectly through a data distribution part,

wherein

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said digital broadcasting transmission apparatus has a transmission means for multiplexing and broadcasting ordinary data to be broadcasted as present programs and index data defined as identification information of data broadcasted in past or to be broadcasted in future.

- 2. A digital broadcasting system of Claim 1, wherein said index data includes a data ID of the data broadcasted in past or to be broadcasted in future, and a remote memory location from which the data can be downloaded.
- 20 3. A digital broadcasting system of Claim 1 or 2, wherein said digital broadcasting transmission apparatus adds distinctive identifiers individually to said ordinary data and said index data.
- 4. A digital broadcasting system of Claim 1, 2 or 3, wherein said digital broadcasting receive apparatus has a data separation means for identifying said ordinary data and said index data separately among the received data groups of digital broadcasting
 - 5. A digital broadcasting system of Claim 4, wherein aid digital broadcasting receive apparatus has a judge

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means for determining whether an original data are downloaded in the apparatus itself or not by referring to an data ID in said received index data.

- A digital broadcasting system of Claim 5, wherein said digital broadcasting receive apparatus is a mobile terminal, and has a download request means for allowing to select the necessity for downloading by displaying index data of an original data not downloaded yet.
 - 7. A digital broadcasting system of Claim 6, wherein said mobile terminal has a transmission means for putting out contents requested by said download request means, and a receive means for receiving digital broadcasting contents or download data selectively.
 - 8. A digital broadcasting system of Claim 7, wherein said transmission means adds and puts out said requested contents with a public-key used exclusively for an individual user or an individual terminal.
 - 9. A digital broadcasting system of Claim 1, 2 or 3, wherein said digital broadcasting receiver is an information relay apparatus (hereinafter referred to as "information service station"), and has a data receive means for receiving said digital broadcasting contents, and a data memory means for storing said ordinary data and said index data separately among received data groups.
- 30 10. A digital broadcasting system of Claim 9, wherein said information service station has an input means for accepting a download request;

data management means for referring to an index data corresponding to requested data in case that said data memory mean's does not contain requested data, and directing said requested data to be retrieved from a remote memory location specified by said index data; and a distribution means for transmitting download data to a requester.

- A digital broadcasting system of Claim 10, wherein 11. said information service station has a security management means for encrypting said download data by using a cipher key specified by said requester.
- A digital broadcasting system of Claim 10or 11, wherein 12. transmits station service information said verification information for verifying a fact that said requester obtains an distributed information along with said download data and acknowledges a response to said verification information, and processes a billing operation.
- A mobile terminal embedding a computer executing plural 1/3. installed software programs such as map navigation comprising a communication means for receiving digital broadcasting contents;
- an input means for accepting an operation input by a user; 25 an information memory means for storing programs and related data;
 - a display means for displaying an execution result of programs and a operation screen; and
- a control means for managing a program and data captured from 30 said communication \means and said input means, wherein said information memory means stores a management

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information including an information ID of said programs and data independently of said programs and data themselves.

14. A\mobile terminal of Claim 13, wherein

when said control means receives an index data including data ID's (number and/or name) of the data already broadcasted or to be broadcasted in the future along with said ordinary data including programs and related data as time division multiplex data of said digital broadcasting contents through said communication means, said control means extracts a data ID's of data not yet downloaded among data covered by said index data by referring to management data stored in said information memory means, and displays data with said display means.

15. A mobile terminal of Claim 13 or 14, wherein

said input means has an external media input means allowing an IC card and/or an external memory media to be inserted, and when a designated memory media is inserted and a download operation is requested by said input means, said management data stored in said information memory means are read out and stored in an inserted memory media.

16. A mobile terminal of Claim 15, wherein

said designated memory media is an IC card, and stores a mobile terminal number and/or user number, and a cipher key for download operation.

17. A mobile terminal of Claim 14 or 15, wherein
30 said communication means has a receive channel corresponding
to a transmission from a download requester as well as a receive
channel for said digital broadcasting, in which those channels

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are switched in responsive to an insert operation of said designated memory media.

- An information service station storing data groups received in a digital broadcasting and distributing data in responsive to a download request from a mobile terminal, wherein said information service station obtains an individual cipher key for said mobile terminal and encrypts data requested for downloading by said cipher key and sends a encrypted data to a requester.
- 19. An information service station of Claim 18, wherein a management information including data ID's (number and/or name) of stored data and an internal memory location are stored; and the data ID's and index data, which are received along with ordinary data as said digital broadcasting data, including external data memory locations for data already broadcasted or to be broadcasted in the future are stored as management data.
- 20. An information service station of Claim 19, wherein said cipher key is obtained from an output of a transmission means of a mobile terminal as a cipher key described in Claim 8.
- 21. An information service station of Claim 19, wherein said cipher key is obtained from an IC card for a mobile terminal as a cipher key described in Claim 16.
- 30 22. An information service station of Claim 21, wherein a data ID of data already downloaded by said mobile terminal and stored in said IC card and said management information are

compared with each other, and the data not downloaded yet or its version are displayed selectively.

23. An information service station of Claim 22, wherein in case that a download request in terms of selection is issued for data or its version displayed, a download charge is displayed so as to enable to verify a download operation.

24. An information service station of Claim 19, 20, 21, 22 or 23, wherein

in case that data requested for download are not located in said internal memory location, said requested data are captured from said external memory location indicated by an index data contained in said requested data and downloaded onto a requester.

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